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Title:

JP05342977A2: PROPER VOLTAGE DETECTION PROTECTION DEVICE FOR ELECTROMAGNETIC SWITCH

Derwent Title:

Voltage detector - has input voltage detector circuit to detect and correct overvoltages NoAbstract [\[Derwent Record\]](#)

Country:

JP Japan

Kind:

A

Inventor:

KO TENSEI;

Assignee:

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Published / Filed:

1993-12-24 / 1991-06-24

Application

JP1991000152054

Number:

IPC Code:

H01H 83/10; G01R 19/165; H01H 83/12;

Priority Number:

1991-06- JP1991000152054

Abstract:

PURPOSE: To protect a load device in a proper use state by closing an electromagnetic switch contact so as to control in a conduction state only at a voltage value in an adapting range to a rated voltage of the load device.

CONSTITUTION: A rectifier circuit 10 which feeds circuit voltages V to respective circuits, and an input voltage detection circuit 12 which detects whether a power source voltage is too little, proper, or too large and outputs a high-level signal when the voltage reaches respective set voltage values and outputs a low-level signal when the voltage does not reach the set voltage values are provided in an

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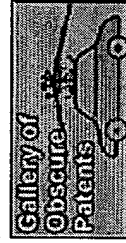
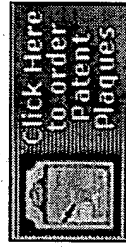
AC or DC power source P. A switch circuit 14 which outputs a high-level drive signal when the power source voltage is distinguished to be in a proper range and outputs a low-level drive signal when the power source voltage is distinguished to be too little or too large by the high- or low-level signal is provided. Further a drive circuit 16 which becomes on state to close the contacts 20, 22 of an electromagnet switch 2 only at the input time of the high-level drive signal and becomes off state to open the contacts 20, 22 at the input time of the low-level drive signal is provided.

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Family: None

DERABS G94-037990 DERG94-037990

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Dwg. 2/4

Family:

Patent Pub. Date Derwent Update Pages Language IPC Code
☒ JP05342977A * 1993-12-24 199405 8 English H01H 83/10
 Local appls.: JP1991000152054 Filed:1991-06-24 (91JP-0152054)

Priority Number:

Application Number	Filed	Original Title
JP1991000152054	1991-06-24	PROPER-VOLTAGE DETECTION AND PROTECTIVE DEVICE OF ELECTROMAGNETIC SWITCH

Title Terms:

VOLTAGE DETECT INPUT VOLTAGE DETECT CIRCUIT DETECT CORRECT OVERVOLTAGE NOABSTRACT

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(番地なし)

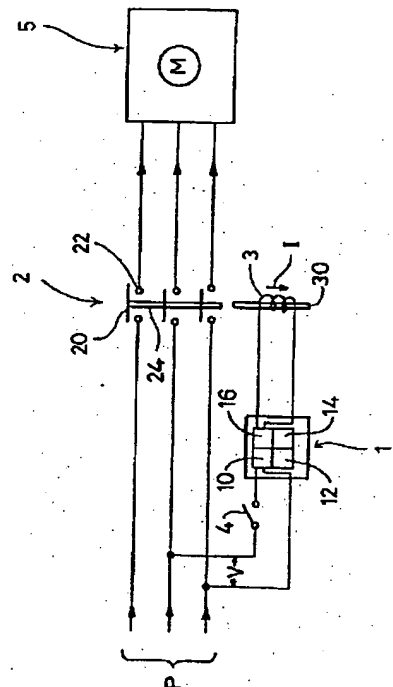
(74) 代理人 弁理士 伊東 忠彦 (外2名)

(54) 【発明の名称】 電磁スイッチ用の適正電圧検出保護装置

(57) 【要約】

【目的】 過大または過小電圧を検出して電磁スイッチを遮断し、負荷装置に適正電圧のみを供給することで、負荷装置を保護する。

【構成】 交流または直流電源Pに対して設けて各回路に回路電圧Vを提供する整流回路10と、それぞれ適正電圧の過小、適正および過大を検出して、過小、適正および過大それぞれの設定電圧に達している時はハイ・レベル信号を出力し、設定電圧に達していない時はロー・レベル信号を出力する入力電圧検出回路12と、ハイまたはロー・レベル信号により電源電圧Pが適正範囲にあると判別する時にハイ・レベル駆動信号を出力し、電源電圧Pが過小または過大であると判別する時はロー・レベル駆動信号を出力するスイッチング回路14と、ハイ・レベルの駆動信号が入力される時のみオン状態となって電磁スイッチ2の接点20、22の閉じて電源電圧Pを提供し、ロー・レベル駆動信号が入力される場合はオフ状態となって電磁スイッチ2の接点20、22を開いて電源電力Pの供給を停止する駆動回路16とから構成した。



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